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PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Land Recycling and Waste Management
P.O. Box 8550
Harrisburg, PA 17105-8550

Form approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST PAD 6 4 6 5 3 8	1 1 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nifest ment No. DX 2	2. Page 1 of	Information with required by Fed required by Sta	derai law i	
3. Generator's Name and Mailing Address		0		lanifest Document Nur		2000
Lyondell Chemical Com 3881 West Chester Pik	apany			⊃ ΔΞ 6	alf	696
3801 West Chester Pik	kė 1		B. State G			-
4. Generator's Phone (6) 4 350 4840	₽ ₽73		SA	ME		
4. Generator's Phone (616 359-4849 5. Transporter 1 Company Name	6. US EPA ID Number		C. State T	rans. ID		
	2 2 6 2 2 2			-AH 03	12.	
Clean Herbors EN, Services [4] AD	137377	<u>ب ک</u> ن		The state of the s		W1 1100
7. Transporter 2 Company Name	8. US EPA ID Number			orter's Phone	184	17-180
			E. State T			
Designated Facility Name and Site Address	10. US EPA ID Number	1	PA	-AH		
Corp.			F. Transp	orter's Phone ()	
Systech Environmental of of the			G. State F	acility's ID		
Systech Environmental of Off 18			H. Facility	's Phone ()		
Paulding, OH 45879 O H D @) 	7 _{12. Contail}		13. 119	7947	1835 _{i.}
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number	er)			Total	Unit	Waste No.
		No.	Type	Quantity	Wt/Vol	-
a. RQ. WASTE FLAMMABLE LIQUIDS. N.O.S. (AC	ETONE				1 1	100
RQ, WASTE FLAMMABLE LIQUIDS, N.O.S. (AC ISOPROPANOL)(DØ01,F003,F005)(ERG 128),	3. UN1993, II	,	7	(سرسر (مسسح		E883
	.,	J	TI	5250	5	7
b.				/		163
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c.						
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d.					 	_
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			V 17	A.L. (
J. Additional Descriptions for Materials Listed Above Lab Pack Physical State Lab Pack			K. Handling	Codes for Wastes Lis	ted Abov	e
	Physical State	i				
	Physical State			1		
	Physical State		a.	с.		
a (17)	Physical State		a.	c.	1,180	
	Physical State		a. b	c.		
a (17)	Physical State		a. b.			
b d 15. Special Handling Instructions and Additional Information	Physical State B D035, D	038	b.			
b d 15. Special Handling Instructions and Additional Information	B Lul	038	b.			
b d 15. Special Handling Instructions and Additional Information	B Lul	038	b.	d.		
b d 15. Special Handling Instructions and Additional Information	D035, D		ь.	d.	D415	21312
b d 15. Special Handling Instructions and Additional Information	D035, D		ь.	d.	D415645-	91312 -8265
a	DO35, D IN EME	RGENCY,	CALL	CHES 1-866	-645-	-8265
a	DO35, D IN ENE	RGENCY,	CALL described at	CHES 1-866	ng name a	-8265 and are regulations.
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C	LEAN HARBORS #13	
Al	JGUST 24,1999	
ISOPROPANOL (I	PA)	40.6218%
ACETONE F003		36.8047%
WATER (H2O)		14.0424%
POLYOL		4.0539%
ALLYL PROPOXY	LATE	1.0000%
OIL		0.4381%
PG / EG		0.3948%
HEXANE		0.3554%
T BUTYL ALCOHO	OL (TBA)	0.3075%
ISOOCTANE		0.2562%
HEPTANE		0.2500%
ETHYLBENZENE	(EB) F003	0.1755%
TETRAHYDROFU	·	0.1738%
METHANOL F003		0.1516%
METHYL BENZYL	ALCOHOL (MBA)	0.1043%
PROPYLENE OXI		0.0935%
ETHER FOO3	THYL	0.0901%
METHYL ETHYL	KETONE (MEK) D035, F005	0.0811%
PYRIDINE D038		0.0660%
TOLUENE F005		0.0567%
ACETONITRILE		0.0518%
ARCOSOLVS		0.0497%
DISOBUTYLENE	(DIB)	0.0494%
SULFURIC ACID (H2SO4)	0.0487%
ISOBUTYLENE		0.0471%
CHLOROFORM D	022	0.0418%
METHYL T-BUTYI	_ ETHER (MTBE)	0.0322%
ACETOPHENONE	(ACP)	0.0282%
ACETIC ACID		0.0275%
GASOLINE		0.0242%
POTASSIUM HYD	ROXIDE (KOH)	0.0215%
HYDROCHLORIC	ACID (HCL)	0.0146%
T BUTYL ACETA	ΓE	0.0142%
AMMONIA (NH4O	H)	0.0126%
STYRENE		0.0100%
SODIUM HYDROX		0.0048%
NITRIC ACID (HN		0.0042%
	ORIDE (MECL2) F002	0.0000%
PROPIONAL DAH'	/DE	0.0000%
ETHANOL		0.0000%
	•	
TOTAL PA	VE	100.00%
GALLONS		
MANIFEST#		
VAPOR RECOVER	RY 5 GALLONS	

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

Column 1 - Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).

Column 2 - Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.

Column 3 - Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.

Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

- 1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class 1 SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.
- 1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.
- 2 = The waste is a characteristic hazardous waste D001 (other than High TOC lgnitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.
- 4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/ disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.
- 5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.
- 6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.

SECTION 1. CHARACTERISTIC WASTES DOO1 THROUGH DO43

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY				COLUMN 3: Wastewater/ Non-Wastewater			COLUMN 4: HANDLING CO			
110	[]	D001 D001	Ignitables, except High TOC subcategory High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)		W Non-W	[] Non-W Jonly	d	2	3	6	6
	[]	D002	Corrosives	[]	w	[] Non-W	1	2	3	4	6
		[]	Reactive Sulfide, per 261.23(a)(5)	[]	w	[] Non-W	1	3	4	5	6
		[]	Reactive Cyanide, per 261.23(a)(5)	[]	w	[] Non-W	1	3	4	5	6
		[]	Explosive, per 261.23(a)(6), (7) & (8)	[]	w	[] Non-W	1	2	3	4	6
		[]	Water Reactive, per 261.23(a)(2), (3) & (4)	[]	Non-W	J only	1	2	3	4	6
		[]	Other Reactive, per 261.23(a)(1)	()	W	[] Non-W	1	2	3	4	6
		Ü	Unexploded Ordnance, Emergency Response	7	W	[] Non-W	1	3	4	5	6
	()	0004	Arsenic		w	[] Non-W	1	2	3	4	6
	ii	0005	Barium		w	[] Non-W	i	5	3	4	Ă
	ii	D006	0011411			() MOI! WM	•	-	•	•	•
		[]	Cadmium		w	[] Non-W	•	2	3	4	6
							,	ž	7	•	U
		[]	Cadmium Containing Batteries		Non-W	•	2	3	•		
	[]	D007	Chromium	[]	w	() Non-W	1	2	3	4	٥
	[]	B000									
		[]	Lead	[]	W	[] Non-W	1	2	3	4	6
		[]	Lead Acid Batteries	()	Non-W	W only	2	3	6		

SECTION 1. CHARACTERISTIC WASTES DO01-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / NAME	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
//A	[] D009 [] Low Mercury, less than 260 mg/kg Mercury [] High Mercury Organic Subcategory [] D010 Selenium [] D011 Silver [] D012 Endrin [] D013 Lindane [] D014 Methoxychlor [] D015 Toxaphene [] D016 2,4-0 [] D017 2,4,5-TP (Silvex) [] D018 Benzene [] D019 Carbon tetrachloride [] D020 Chlorodane [] D021 Chlorobenzene [] D022 Chloroform [] D023 o-Cresol [] D024 m-Cresol [] D025 p-Cresol [] D026 Cresol [] D027 1,4-Dichloroethane [] D028 1,2-Dichloroethane [] D029 1,1-Dichloroethylene [] D030 2,4-Dinitrotoluene [] D031 Heptachlor (and its epoxide) [] D033 Hexachlorobutadiene [] D034 Hexachloroethane [] D035 Methyl ethyl ketone [] D036 Nitrobenzene [] D037 Pentachlorophenol [] D038 Pyridine [] D039 Tetrachlorophenol [] D040 Trichloroethylene [] D041 2,4,5-Trichlorophenol [] D042 2,4,6-Trichlorophenol [] D043 Z,4,6-Trichlorophenol [] D044 Z,4,5-Trichlorophenol	[] WW [] Non-WW [] Non-WW only [] Non-WW only [] WW [] Non-WW [] WW [] WW [] Non-WW [] WW [] WW [] Non-WW [] WW [] WW [] Won-WW [] WW [] WW [] WW [] WN-WW	1 2 2 3 3 3 3 3 2 2 2 2 1 1 1 1 1 1 1 1
SECTION II.	SPENT SOLVENT WASTES FOOT THROUGH FOOT		
COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / CONSTITUENTS	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
la_	[] F001 [] F002 () F003 [] F004 () F005	[] WW [XØ] Non-WV	3 4 (5) 6
	1. ALL F001-F005 [] 12. Cyclohexanone 2. Acetone [] 13. o-Dichlorobena 3. Benzene [] 14. 2-Ethoxyethano only) 5. Carbon disulfide [] 15. Ethyl acetate 6. Carbon tetrachloride [] 16. Ethyl benzene 7. Chlorobenzene [] 17. Ethyl ether 8. o-Cresol [] 18. Isobutyl alcol gistinguish from [] 19. Methanol distinguish from [] 20. Methylene chlo p-cresol) [] 22. Methyl isobutyl distinguish from [] 23. Nitrobenzene m-cresol) [] 24. 2-Nitropropano only) 11. Cresol - mixed isomers (sum of o-, m- and p-cresol)	[] 26 [] 26 [] 27 [] 28 [] 29 [] 30 [] 31 [] 32 [] 32 [] 32 [] 33 [] 33 [] 34 [] 34 [] 35 [i. Pyridine 7. Tetrachloroethylene 7. Toluene 8. 1,1,1-Trichloro- ethane 9. 1,1,2-Trichloro- ethane 1. Trichloroethylene 1. 1,1,2-Trichloro- 1,2,2-trifluoroethane 9. Trichloromonofluoro- methane 9. Xylene - mixed isomers (sum of o-, m-, and p-xylene)

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. LAND DISPOSAL RESTRICTION NOTIFICATION FORM LDR-1 Manifest No. PAE 6916696

SECTION III. CALIFORNIA LIST WASTES COLUMN 3: COLUMN 1. COLUMN 2. COLUMN 4: WASTE CODE / SUBCATEGORY WASTEWATER/ LINE ITEM HANDLING CODE SEE MANIFEST NON-WASTEWATER 1 2 3 4 5 6 [] Non-W Hazardous waste containing one or more of the following () W California List constituents: ALL CALIFORNIA LIST CONSTITUENTS Liquids with nickel greater than or equal to 134 mg/l [] [] Liquids with thallium greater than or equal to 130 mg/l Liquids with PCB's > or = 50 ppm [] Waste containing HOC's > or = 1,000 mg/kg SECTION IV. OTHER LISTED WASTES (FO06-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES) COLUMN 4: COLUMN 1: COLUMN 2: COLUMN 3: LINE ITEM WASTE CODE / SUBCATEGORY WASTEWATER/ HANDLING CODE SEE MANIFEST NON-WASTEWATER 3 4 5 6 [] W [] Non-W [] Non-W 3 4 5 6 [] W 3 4 5 6 [] WW [] Non-W 3 4 5 6 [] Non-W [] W 3 4 5 6 [] W [] Non-W [] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.
[] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM. SECTION V. CONTACT NAME AND DATE

KEY TERMS/DEFINITIONS

Print Name:

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code 0001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CHBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]